

IN THE CLAIMS:

Please amend claim 1.

Please cancel claims 2, 3, 11, 14, 17, 20-26, 37, 38, 43, 65, 66, 68, 95, 120, 121, 123, 126, 167-171, 173, 175, 178, 199-203 on file without prejudice to the applicant's right to reinstate those claims or to pursue those claims in a continuation application. Claims 4-10, 12, 13, 15, 16, 18, 19, 27-36, 39-42, 44-46, 67, 69-94, 96-119, 122, 124, 125, 127-166, 172, 174, 176, 177, and 179-198 were previously cancelled. Accordingly, each of claims 2-203 are cancelled.

This listing of claims will replace all prior versions, and listings of the claims in the application.

Listing of the claims

1. **(Currently amended)** A method for identifying an immunogenic protein or fragment thereof capable of eliciting an immune response, said method comprising ~~obtaining~~ providing a protein complex comprising an immunoglobulin and a protein or fragment thereof bound to said immunoglobulin by virtue of an antigen-antibody interaction, or mixtures thereof or an immunoglobulin containing fraction wherein said protein complex has been obtained from a subject that has elicited an immune response against said immunogenic protein or fragment thereof or has been obtained from a cell, tissue or organ thereof of said subject, and identifying [[a]] said protein or fragment thereof bound to the immunoglobulin by virtue of an antigen-antibody interaction, thereby identifying an immunogenic protein or fragment thereof capable of eliciting an immune response.

2.-203. **(Cancelled)**

204. (New) The method according to claim 1, wherein the subject suffers from an infection or has suffered previously from an infection.

205. (New) The method according to claim 1, wherein the subject suffers from an autoimmune condition.

206. (New) The method according to claim 1, wherein the subject has been previously immunized with a cell or an extract thereof comprising the immunogenic protein or fragment thereof.

207. (New) The method according to claim 206, wherein the cell or extract thereof is derived from an infectious agent expressing the immunogenic protein or fragment thereof.

208. (New) The method according to claim 207, wherein the cell or extract thereof comprises a viral particle, a bacterial cell, a yeast cell, a fungal cell or a cell of a parasite or an extract from a virus, an extract from a bacterium, an extract from a yeast, an extract from a fungus, or an extract from a parasite.

209. (New) The method according to claim 208, wherein the cell is a bacterial cell or the cellular extract is a bacterial extract.

210. (New) The method according to claim 209, wherein the bacterial cell or bacterial extract is *Pseudomonas aeruginosa* or *Mycobacterium tuberculosis*.

211. (New) The method according to claim 1, additionally comprising separating an immunogenic protein or fragment thereof from the immunoglobulin of the protein complex.

212. (New) The method according to claim 211, wherein the immunogenic protein or fragment thereof is separated from the immunoglobulin by a method that comprises contacting the protein

complex with a compound that disrupts the antigen-antibody interaction for a time an under conditions sufficient to disrupt the antigen-antibody interaction.

213. (New) The method according to claim 212, wherein the compound that disrupts the antigen-antibody interaction is selected from the group consisting a compound that modulates the pH of the immunoglobulin fraction, a salt, an ionic detergent, a dissociating agent and a chaotropic agent.

214. (New) The method according to claim 1, additionally comprising isolating the protein or fragment thereof from the protein complex.

215. (New) The method according to claim 214, wherein the protein or fragment thereof is isolated using gel electrophoresis.

216. (New) The method according to claim 1, wherein the protein or fragment thereof is identified using mass spectrometry.

217. (New) The method according to claim 1, wherein the protein complex is obtained by a process comprising separating or purifying a sample from the subject.

218. (New) The method of claim 217, wherein separating or purifying comprises contacting the sample with one or more compounds capable of binding an immunoglobulin for a time and under conditions sufficient for binding to occur.

219. (New) The method of claim 218, further comprising isolating the one or more compounds.

220. (New) The method of claim 219, wherein the one of more compounds is/are previously immobilized on a solid support, matrix or resin.

221. (New) The method according to claim 220, further comprising washing the one or more immobilized compounds to thereby remove non-specifically bound protein or unbound protein.

222. (New) The method according to claim 218 further comprising linking immunoglobulin to the one or more compounds.

223. (New) The method according to claim 222 wherein linking comprises performing a process that comprises contacting a cross-linking agent with the one or more compounds having immunoglobulin bound thereto for a time and under conditions sufficient for covalent linkage to occur between a compound and the immunoglobulin.